

## ABSTRACT

The present invention relates to nucleic acids corresponding to various exons of ABCA5, ABCA6, ABCA9, and ABCA10 genes as well as cDNAs encoding the novel full length of ABCA5, ABCA6, ABCA9, and ABCA10 proteins. The invention also relates to means for the detection of polymorphisms in general, and of mutations in particular, in the ABCA5, ABCA6, ABCA9, and ABCA10 genes or in the corresponding protein produced by the allelic form of the ABCA5, ABCA6, ABCA9, and ABCA10 genes.